Connecting via Winsock to STN

```
Welcome to STN International! Enter x:x
```

LOGINID: SSSPTA1626GMS

PASSWORD:

10807710.trn

Page 1

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
* * * * * * * * *
                    Welcome to STN International
                Web Page URLs for STN Seminar Schedule - N. America
NEWS 1
NEWS 2
                 "Ask CAS" for self-help around the clock
         SEP 01 New pricing for the Save Answers for SciFinder Wizard within
NEWS 3
                STN Express with Discover!
NEWS 4 OCT 28 KOREAPAT now available on STN
NEWS 5 NOV 30 PHAR reloaded with additional data
NEWS 6 DEC 01 LISA now available on STN
NEWS 7 DEC 09 12 databases to be removed from STN on December 31, 2004
NEWS 8 DEC 15
                MEDLINE update schedule for December 2004
NEWS 9 DEC 17
                ELCOM reloaded; updating to resume; current-awareness
                alerts (SDIs) affected
NEWS 10 DEC 17
                COMPUAB reloaded; updating to resume; current-awareness
                alerts (SDIs) affected
                SOLIDSTATE reloaded; updating to resume; current-awareness
NEWS 11 DEC 17
                alerts (SDIs) affected
NEWS 12 DEC 17
                CERAB reloaded; updating to resume; current-awareness
                alerts (SDIs) affected
NEWS 13 DEC 17
                THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS 14 DEC 30
                EPFULL: New patent full text database to be available on STN
                CAPLUS - PATENT COVERAGE EXPANDED
NEWS 15 DEC 30
NEWS 16 JAN 03
                No connect-hour charges in EPFULL during January and
                February 2005
NEWS 17 FEB 25
                CA/CAPLUS - Russian Agency for Patents and Trademarks
                 (ROSPATENT) added to list of core patent offices covered
NEWS 18 FEB 10
                STN Patent Forums to be held in March 2005
NEWS 19 FEB 16
                STN User Update to be held in conjunction with the 229th ACS
                National Meeting on March 13, 2005
                PATDPAFULL - New display fields provide for legal status
NEWS 20 FEB 28
                data from INPADOC
                BABS - Current-awareness alerts (SDIs) available
NEWS 21 FEB 28
NEWS 22 FEB 28 MEDLINE/LMEDLINE reloaded
NEWS 23 MAR 02 GBFULL: New full-text patent database on STN
NEWS 24 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 25 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
             MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
             AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005
NEWS HOURS
             STN Operating Hours Plus Help Desk Availability
NEWS INTER
             General Internet Information
NEWS LOGIN
             Welcome Banner and News Items
NEWS PHONE
             Direct Dial and Telecommunication Network Access to STN
```

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 14:16:29 ON 14 MAR 2005

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE Do you want to switch to the Registry File? Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 13 MAR 2005 HIGHEST RN 845467-46-1 DICTIONARY FILE UPDATES: 13 MAR 2005 HIGHEST RN 845467-46-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Program Files\Stnexp\Queries\10807710.str

 $\alpha\text{-Toluenethiol}, \ \alpha\text{-[1-(dimethylamino)ethyl]-, hydrochloride, L(+)-threo- (preparation of)
RN 942-48-3 CAPLUS
CN Benzenemethanethiol, <math display="inline">\alpha\text{-[1-(dimethylamino)ethyl]-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)$

Absolute stereochemistry.

RN 942-49-4 CAPLUS CN α -Toluenethiol, α -[1-(dimethylamino)ethyl]-, L-(-)-erythro-(8CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 942-50-7 CAPLUS CN Benzenemethanethiol, α -[1-(dimethylamino)ethyl]-, hydrochloride, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

L13 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1964:447807 CAPLUS

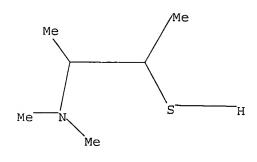
DOCUMENT NUMBER: 61:47807
ORIGINAL REFERENCE NO.: 61:8284a-b

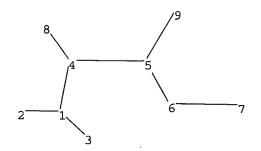
TITLE: Preparation of quaternary ammonium betaine salts

INVENTOR(S): Klass, Donald L. PATENT ASSIGNEE(S): Pure Oil Co.

SOURCE: 4 pp.
DOCUMENT TYPE: Patent

10807710.trn Page 31 14:27





chain nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

1-2 1-3 1-4 4-5 4-8 5-6 5-9 6-7

exact/norm bonds :

1-4 5-6

exact bonds :

1-2 1-3 4-5 4-8 5-9 6-7

Match level :

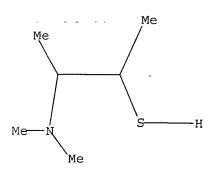
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1

SAMPLE SEARCH INITIATED 14:16:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1948 TO ITERATE

51.3% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

0 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

10807710.trn

Page 3

03/14/2005

10807710.trn

BATCH **COMPLETE**

PROJECTED ITERATIONS:

36313 TO 41607

PROJECTED ANSWERS:

0 TO

T.2

0 SEA SSS SAM L1

=> S L1 SSS FULL

FULL SEARCH INITIATED 14:16:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 37690 TO ITERATE

100.0% PROCESSED 37690 ITERATIONS

SEARCH TIME: 00.00.01

L3 4 SEA SSS FUL L1

=> FIL CAPLUS

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL SESSION

161.33

161.54

FULL ESTIMATED COST

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FILE COVERS 1907 - 14 Mar 2005 VOL 142 ISS 12 FILE LAST UPDATED: 13 Mar 2005 (20050313/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L3

L4

=> d l4 ibib abs hitstr tot

3 L3

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2005:141013 CAPLUS

DOCUMENT NUMBER:

142:212335

TITLE:

Polyamine and aminothiol compounds and compositions

for use in conjunction with cancer therapy

INVENTOR(S):

Fahl, William E.; Peebles, Daniel D.; Copp, Richard R.

PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, USA SOURCE: PCT Int. Appl., 142 pp.

CODEN: PIXXD2

T TYPE: CODEN: PIXX
Patent

DOCUMENT TYPE: LANGUAGE:

English

10807710.trn

Page 4

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

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PATENT NO.
                               DATE
                      KIND
                                            APPLICATION NO.
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                       _ _ _ _
                                            -----
WO 2005014524
                              20050217
                                            WO 2004-US26535
                       A2
                                                                       20040809
    W: AE, AG, AL, AM, AT, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
        CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
        NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
        TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
    RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
        AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
         EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
         SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
        SN, TD, TG
```

PRIORITY APPLN. INFO.:

US 2003-493218P P 20030807

The invention provides polyamine and aminothiol compds. and pharmaceutical compns. for administration in conjunction with cancer chemotherapy or radiation therapy. The compds. are administered locally to provide protection against the adverse side-effects of chemotherapy or radiation therapy, such as alopecia, mucositis and dermatitis. Pharmaceutical prepns. comprising one or more chemoprotective polyamines or aminothiols formulated for topical or local delivery to epithelial or mucosal cells are disclosed. Methods of administering the pharmaceutical prepns. are also disclosed.

IT 844435-75-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(polyamine and aminothiol compds. and compns. for use in conjunction with cancer therapy)

RN 844435-75-2 CAPLUS

CN 2-Butanethiol, 3-(dimethylamino)- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1984:562548 CAPLUS

DOCUMENT NUMBER: 101:162548

TITLE: Substituted cysteamine ligands and their complexes

with molybdenum(VI)

AUTHOR(S): Corbin, James L.; Miller, Kenneth F.; Pariyadath,

Narayanakutty; Heinecke, Jay; Bruce, Alice E.;

Wherland, Scot; Stiefel, Edward I.

CORPORATE SOURCE: Charles F. Kettering Res. Lab., Yellow Springs, OH,

45387, USA

SOURCE: Inorganic Chemistry (1984), 23(21), 3404-12

CODEN: INOCAJ; ISSN: 0020-1669

DOCUMENT TYPE: Journal LANGUAGE: English

New bidentate cysteamine-based ligands containing Me-substituted C and N atoms were prepared Together with known ligands the following complete set has now been prepared: NH2CH2CH2SH, MeNHCH2CH2SH, Me2NCH2CH2SH, NH2C(CH3)2CH2SH,

MeNHC(CH3)2CH2SH, Me2NC(CH3)2CH2SH, NH2CH2C(CH3)2SH, MeNHCH2C(CH3)2SH, Me2NCH2C(CH3)2SH, NH2C(CH3)2C(CH3)2SH, MeNHC(CH3)2C(CH3)2SH, and Me2NC(CH3)2C(CH3)2SH. Five of the ligands in this series are new, and their preparation is reported in detail. Also RNHCH2C(CH3)2SH ligands (R = iso-Pr and iso-Bu) are reported for the 1st time. These ligands, LH, were reacted in MeOH with MoO2(acac)2 (Hacac = acetylacetone). In most cases MoO2L2 resulted. However, in some cases this complex appears to be unstable. The prepns. and spectroscopic properties of the complexes are reported. The low values of $\nu(\mbox{Mo-O})$ for some of the complexes are correlated either with H bonding or with the presence of a skew-trapezoidal-bipyramidal structure. Likewise, electronic absorption spectra differ for complexes with octahedral as opposed to skew-trapezoidal-bipyramidal structures. For a given complex, 170 and 1H NMR spectroscopies are consistent with adoption in solution of the same octahedral or skew-trapezoidal-bipyramidal structure that is found in the solid state. Further, the skew-trapezoidal-bipyramidal complexes display temperature-dependent NMR spectra that are interpreted in terms of configurational averaging probably caused by Mo-N bond cleavage.

IT 91229-44-6P

> RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 91229-44-6 CAPLUS

2-Butanethiol, 3-(dimethylamino)-2,3-dimethyl-, hydrochloride (9CI) (CA CN INDEX NAME)



HCl

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1964:447807 CAPLUS

DOCUMENT NUMBER: 61:47807 ORIGINAL REFERENCE NO.: 61:8284a-b

TITLE: Preparation of quaternary ammonium betaine salts

INVENTOR(S): Klass, Donald L. PATENT ASSIGNEE(S): Pure Oil Co.

SOURCE: 4 pp.

DOCUMENT TYPE: Patent LANGUAGE: Unavailable

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. --------------------US 3131189 19640428

GΙ For diagram(s), see printed CA Issue.

Carbyl sulfate (I), prepared by the reaction of 2 moles SO3 and 1 mole ethylene, reacted with a tertiary amine to form betaines. Thus 1.5 q. pyridine (II) in 10 ml. ethylene dichloride was added to 3 g. I in 30 ml. ethylene dichloride (the reaction was exothermic), the liquid decanted from the precipitate, and the precipitate covered with petr. ether and cooled to give

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IIa (R = R1 = H), m. 250-5° (HCONMe2). I was also treated with the following to form betaines: quinoline, acridine, trimethylamine, and dimethylaniline (III). Also reported without details were: IIa (R = Ph, R1 = H); Et3NCHEtCH2SO3; IIa (R = R1 = Me); and PhNMe2CMe2CMe2SO3. These compds. are useful intermediates for the preparation of detergents. (Cf. U.S. 2,666,788, or Brit. 686,061.)

RN 97176-62-0 CAPLUS

CN Dimethylphenyl(1,1,2-trimethyl-2-sulfopropyl)ammonium hydroxide, inner salt (7CI) (CA INDEX NAME)

=> FIL REGISTRY COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 18.42 179.96 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -2.19 -2.19

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STRUCTURE FILE UPDATES: 13 MAR 2005 HIGHEST RN 845467-46-1 DICTIONARY FILE UPDATES: 13 MAR 2005 HIGHEST RN 845467-46-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Crossover limits have been increased. See HELP CROSSOVER for details.

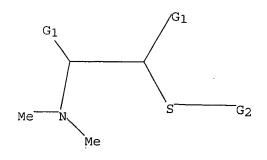
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

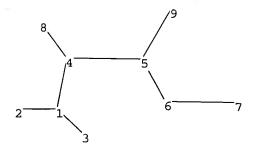
=>

Uploading C:\Program Files\Stnexp\Queries\10807710a.str

10807710.trn

Page 7





chain nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

1-2 1-3 1-4 4-5 4-8 5-6 5-9 6-7

exact/norm bonds :

1-4 4-8 5-6 5-9 6-7

exact bonds : 1-2 1-3 4-5

G1:Ak,Ph

G2:H,CH3

Match level :

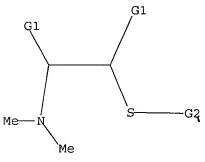
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR



G1 Ak, Ph

G2 H,Me

Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 14:22:20 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 5592 TO ITERATE

10807710.trn

Page 8

17.9% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 107357 TO 116323 PROJECTED ANSWERS: 0 TO

L6 0 SEA SSS SAM L5

=> s 15 sss full FULL SEARCH INITIATED 14:22:26 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 109275 TO ITERATE

100.0% PROCESSED 109275 ITERATIONS

SEARCH TIME: 00.00.02

L7 36 SEA SSS FUL L5

=> FIL CAPLUS

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 161.33 341.29

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE 0.00 -2.19

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FILE COVERS 1907 - 14 Mar 2005 VOL 142 ISS 12 FILE LAST UPDATED: 13 Mar 2005 (20050313/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 17 L8

=> FIL REGISTRY

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

0 ANSWERS

10807710.trn

Page 9

FULL ESTIMATED COST 1.80

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY
SESSION
CA SUBSCRIBER PRICE

0.00
-2.19

343.09

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STRUCTURE FILE UPDATES: 13 MAR 2005 HIGHEST RN 845467-46-1 DICTIONARY FILE UPDATES: 13 MAR 2005 HIGHEST RN 845467-46-1

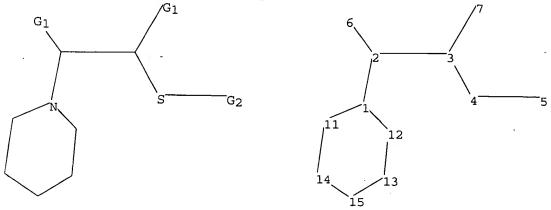
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

Uploading C:\Program Files\Stnexp\Queries\10807710b.str



chain nodes : 2 3 4 5 6 7

ring nodes :

1 11 12 13 14 15

chain bonds :

1-2 2-3 2-6 3-4 3-7 4-5

ring bonds :

1-11 1-12 11-14 12-13 13-15 14-15

exact/norm bonds :

1-2 1-11 1-12 2-6 3-4 3-7 4-5 11-14 12-13 13-15 14-15

exact bonds :

2-3

10807710.trn

Page 10

isolated ring systems : containing $\mathbf{1}$:

G1:Ak,Ph

G2:H,CH3

Match level :

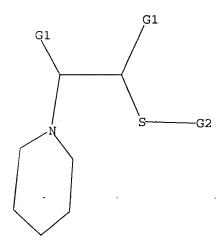
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L9 STRUCTURE UPLOADED

=> d 19

L9 HAS NO ANSWERS

L9 STR



G1 Ak,Ph G2 H,Me

Structure attributes must be viewed using STN Express query preparation.

=> s 19

SAMPLE SEARCH INITIATED 14:25:15 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 3163 TO ITERATE

31.6% PROCESSED 1000 ITERATIONS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 59887 TO 66633

PROJECTED ANSWERS: 0 TO

10807710.trn

Page 11

14:27

0 ANSWERS

L10 0 SEA SSS SAM L9

=> s 19 sss full FULL SEARCH INITIATED 14:25:23 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 62510 TO ITERATE

100.0% PROCESSED 62510 ITERATIONS SEARCH TIME: 00.00.01

L11 17 SEA SSS FUL L9

DII I/ SEA 355 FUL L

=> FIL CAPLUS COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 161.33 504.42 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -2.19

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FILE COVERS 1907 - 14 Mar 2005 VOL 142 ISS 12 FILE LAST UPDATED: 13 Mar 2005 (20050313/ED)

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=> d his

(FILE 'HOME' ENTERED AT 14:16:29 ON 14 MAR 2005)

FILE 'REGISTRY' ENTERED AT 14:16:38 ON 14 MAR 2005

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 4 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 14:17:04 ON 14 MAR 2005

L4 3 S L3

FILE 'REGISTRY' ENTERED AT 14:21:56 ON 14 MAR 2005

L5 STRUCTURE UPLOADED

L6 0 S L5

L7 36 S L5 SSS FULL

10807710.trn

Page 12

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FILE 'CAPLUS' ENTERED AT 14:22:37 ON 14 MAR 2005
L8
             18 S L7
     FILE 'REGISTRY' ENTERED AT 14:24:46 ON 14 MAR 2005
L9
               STRUCTURE UPLOADED
L10
              0 S L9
L11
             17 S L9 SSS FULL
     FILE 'CAPLUS' ENTERED AT 14:25:32 ON 14 MAR 2005
=> s 111
            20 L11
L12
         => s 18 and py<=2002
      22589460 PY<=2002
          17 L8 AND PY<=2002
=> s 112 and py<=2002
      22589460 PY<=2002
            17 L12 AND PY<=2002
=> d 113 ibib abs hitstr tot
L13 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
                         1999:671830 CAPLUS
DOCUMENT NUMBER:
                         132:35935
TITLE:
                        Diastereomeric sulfinates derived from
                        (L)-N-methylephedrine: synthesis, applications and
                         rearrangements
AUTHOR (S):
                        Drabowicz, Jozef; Bujnicki, Bogdan; Biscarini, Paolo;
                        Mikolajczyk, Marian
CORPORATE SOURCE:
                        Centre of Molecular and Macromolecular Studies, Polish
                        Academy of Sciences, Lodz, 90-363, Pol.
SOURCE:
                        Tetrahedron: Asymmetry (1999), 10(16),
                        3177-3187
                        CODEN: TASYE3; ISSN: 0957-4166
PUBLISHER:
                        Elsevier Science Ltd.
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        English
OTHER SOURCE(S):
                        CASREACT 132:35935
     The reaction of sulfinyl chlorides with (L)-N-methylephedrine alone or in
     the presence of tertiary amines was found to produce diastereomeric
     sulfinates with diastereomeric purities up to 90%. The diastereomeric
     ratio is strongly influenced by the nature of substituents on the sulfinyl
     chlorides and to some extent by the reaction conditions. In a few cases,
     the pure diastereomers were isolated by chromatog. and used for the preparation
     of optically active sulfoxides. The silica gel catalyzed rearrangement of
     sulfinates to the corresponding sulfones is also discussed.
IΤ
     252230-36-7P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (diastereomeric sulfinates derived from (L)-N-methylephedrine,
        synthesis, applications and rearrangements)
RN
     252230-36-7 CAPLUS
CN
     Benzeneethanamine, N, N, \alpha-trimethyl-\beta-(methylsulfonyl)-.
     (\alpha S) - (9CI) (CA INDEX NAME)
Absolute stereochemistry.
```

03/14/2005 10807710.trn

O NMe2

Me S Me

REFERENCE COUNT:

THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

CORPORATE SOURCE:

1995:809918 CAPLUS

DOCUMENT NUMBER:

123:286349

TITLE:

Thiol and disulfide derivatives of Ephedra alkaloids.

2. A mechanistic study of their effect on the addition

of diethylzinc to benzaldehyde

AUTHOR (S):

Fitzpatrick, Kevin; Hulst, Ron; Kellogg, Richard M. Dep. of Organic and Molecular Inorganic Chem., Univ.

of Groningen, Groningen, 9747 AG, Neth.

SOURCE:

LANGUAGE:

Tetrahedron: Asymmetry (1995), 6(8), 1861-4

CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER: DOCUMENT TYPE:

Elsevier Journal English

OTHER SOURCE(S):

CASREACT 123:286349

AB Non-linear correlations between the ee of the product, PhCH(OH)Et, and the catalyst, ephedrine thiol or disulfide derivs., were observed Osmotic measurements indicate a high degree of aggregation of the Zn thiolates. The behavior of the thiol derivs. deviates sharply from that of N-methylephedrine.

IT 2218-21-5

RL: CAT (Catalyst use); USES (Uses)

(effect of thiol and disulfide derivs. of ephedrine on addition of Et2Zn to benzaldehyde)

RN 2218-21-5 CAPLUS

CN Benzenemethanethiol, α -[1-(dimethylamino)ethyl]-, hydrochloride, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

HCl

L13 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1990:531411 CAPLUS

DOCUMENT NUMBER:

113:131411

TITLE:

Concerning mass spectra of β -heterosubstituted

thioethers

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10807710.trn

AUTHOR (S):

Carreno, M. Carmen; Carretero, Juan C.; Garcia Ruano,

Jose L.; Martinez, M. Carmen

CORPORATE SOURCE:

Dep. Quim., Univ. Auton. Madrid, Madrid, 28049, Spain

SOURCE:

Organic Mass Spectrometry (1990), 25(6),

339-42

CODEN: ORMSBG; ISSN: 0030-493X

DOCUMENT TYPE:

Journal

LANGUAGE: English

AB The mass spectra of 32 erythro- and threo-RCHXCHRSMe (R = Me, Ph; X = F, Cl, Br, iodo, OH, OMe, OAc, NH2, NMe2) were interpreted in detail. Linear free-energy relationships were determined between the ratio of the relative abundances of the RCHX+ and RCHSMe+ peaks and the inductive and resonance σ consts. of X.

IT 97241-41-3 97241-45-7 97241-46-8

97241-47-9

RL: PRP (Properties) (mass spectrum of)

RN 97241-41-3 CAPLUS

CN 2-Butanamine, N,N-dimethyl-3-(methylthio)-, (R*,S*)- (9CI) (CA INDEX

Relative stereochemistry.

RN 97241-45-7 CAPLUS

CN 2-Butanamine, N,N-dimethyl-3-(methylthio)-, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 97241-46-8 CAPLUS

CN Benzeneethanamine, N, N-dimethyl- β - (methylthio) - α -phenyl-, (R^*, S^*) - (9CI) (CA INDEX NAME)

Relative stereochemistry.

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RN 97241-47-9 CAPLUS

CN Benzeneethanamine, N,N-dimethyl- β -(methylthio)- α -phenyl-, (R^*, R^*) - (9CI) (CA INDEX NAME)

Relative stereochemistry.

L13 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1990:458617 CAPLUS

DOCUMENT NUMBER:

113:58617

TITLE:

Reactions of organic anions. 168. Reactions of 2-(dialkylamino)arylacetonitriles with acetylenes under basic conditions. A simple synthesis of

substituted mono- and diketones

AUTHOR(S):

CORPORATE SOURCE:

Zdrojewski, T.; Jonczyk, A. Dep. Chem., Tech. Univ., Warsaw, PL-00-662, Pol.

SOURCE:

Synthesis (1990), (3), 224-33 CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 113:58617

The reaction of RCH(CN)NR12 (I; R = Ph, 4-MeC6H4, 4-MeOC6H4; R1 = Me; NR12 = piperidino, morpholino, etc.) with R2C.tplbond.CH (II; R2 = Ph, MeS) gave R12NCR(CN)CH:CHR2 (III) and/or R12NCR(CN)CHR2CH:CRNR12; the product depended on the basicity of the amino group in III. I also added to C-1 of II (R2 = EtO) to give R12NCR(CN)C(OEt):CH2. All these products could be hydrolyzed to give mono- or diketones.

IT 128407-41-0P 128407-44-3P

> RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and hydrolysis of)

RN 128407-41-0 CAPLUS

Benzeneacetonitrile, α -(dimethylamino)- α -[3-(dimethylamino)-3-CN (4-methylphenyl)-1-(methylthio)-2-propenyl]-4-methyl- (9CI) (CA INDEX NAME)

RN 128407-44-3 CAPLUS

CN Benzeneacetonitrile, α -(dimethylamino)-4-methyl- α -[1-(methylthio) -3-phenyl-3-(1-piperidinyl) -2-propenyl] - (9CI) (CA INDEX NAME)

IT 128407-50-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 128407-50-1 CAPLUS

CN Benzenepentanenitrile, α -(dimethylamino)-4-methyl- α -(4-methylphenyl)- β -(methylthio)- δ -oxo- (9CI) (CA INDEX NAME)

L13 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1985:505278 CAPLUS

DOCUMENT NUMBER:

103:105278

TITLE:

L-Cysteine-, L-methionine- and D-penicillamine-derived

ligands for transition metal catalyzed carbon-carbon

bond-forming reactions

AUTHOR (S):

Griffin, John H.; Kellogg, Richard M.

CORPORATE SOURCE:

Dep. Org. Chem., Univ. Groningen, Groningen, 9747 AG,

Neth.

SOURCE:

Journal of Organic Chemistry (1985), 50(18),

3261-6

CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 103:105278

L-Cysteine, L-methionine, and D-penicillamine were converted to their corresponding S-alkylated dimethylamino alcs. by alkylation of sulfur and nitrogen followed by reduction of the carboxyl group. One-pot mesylation followed by treatment with lithium diphenylphosphide provides the corresponding phosphine derivative, 2-(dimethylamino)-1-(diphenylphosphino)-3-(methylthio)propane (cysphos), the S-iso-Pr derivative (isopropylcycphos), 2-(dimethylamino)-1-(diphenylphosphino)-4-(methylthio)butane (methphos), and 2-(dimethylamino)-1-(diphenylphosphino)-3-methyl-3-(methylthio)butane (penphos). The latter ligand had an enantiomeric excess of 82%, whereas the other ligands are enantiomerically pure. These compds. were used as ligands for the solubilization of catalytic amts. of NiCl2, which is used to mediate the coupling of vinyl bromide with the (racemic) Grignard reagent or 1-phenyl-1-chloroethane to give 3-phenyl-1-butene in excellent yields and with enantiomeric excesses of up to 65% (methphos). The cross coupling of vinyl bromide to the Grignard reagent of 2-octyl chloride was also examined; enantiomeric excesses of 3-methyl-1-nonene of up to 18% are obtained (penphos).

IT 97071-94-8P 97072-02-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

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(preparation of)

RN 97071-94-8 CAPLUS

CN 1-Butanol, 2-(dimethylamino)-3-methyl-3-(methylthio)-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 97072-02-1 CAPLUS

CN Benzeneacetic acid, α -methoxy- α -(trifluoromethyl)-, 2-(dimethylamino)-3-methyl-3-(methylthio)butyl ester, [S-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 97071-99-3P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as ligand for asym. nickel-catalyzed crosscoupling of Grignard reagents with vinyl bromide)

RN- 97071-99-3 CAPLUS

CN 2-Butanamine, 1-(diphenylphosphino)-N,N,3-trimethyl-3-(methylthio)-, (R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L13 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:437072 CAPLUS

DOCUMENT NUMBER: 10

BER: 103:37072

TITLE: Syntheses of β -heterosubstituted thioethers

AUTHOR(S): Carretero, J. Carlos; Garcia-Ruano, Jose L.; Martinez,

M. Carmen; Rodriguez, Jesus H.

CORPORATE SOURCE: Dep. Quim. Org., Univ. Auton. Madrid, Madrid, 28049,

Spain

SOURCE: Journal of Chemical Research, Synopses (1985)

), (1), 6-7

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LANGUAGE:

03/14/2005 10807710.trn

CODEN: JRPSDC; ISSN: 0308-2342

DOCUMENT TYPE:

Journal English

OTHER SOURCE(S):

CASREACT 103:37072

The thio ethers erythro- and threo-RCHR1CHRSMe (I; R = Me, Ph; R1 = OH, AΒ OMe, F, Cl, Br, iodo, NH2, NMe2) were prepared starting from readily available substrates. I (R = Me, R1 = OH) were readily prepared by treatment of the corresponding MeCHBrCHMeOH with NaSMe in MeOH at 0° for 3 h; the reaction occurs with retention of configuration. Treatment of I (R = Me, R1 = OH) with HCl(g) in CHCl3 at room temperature gave the corresponding I (R = Me, R1 = Cl).

IT 97241-41-3P 97241-45-7P 97241-46-8P

97241-47-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 97241-41-3 CAPLUS

CN 2-Butanamine, N,N-dimethyl-3-(methylthio)-, (R*,S*)- (9CI) (CA INDEX

Relative stereochemistry.

RN 97241-45-7 CAPLUS

CN 2-Butanamine, N,N-dimethyl-3-(methylthio)-, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

97241-46-8 CAPLUS RN

Benzeneethanamine, N, N-dimethyl- β -(methylthio) - α -phenyl-, CN (R*,S*) - (9CI) (CA INDEX NAME)

Relative stereochemistry.

97241-47-9 CAPLUS RN

CN Benzeneethanamine, N,N-dimethyl- β -(methylthio)- α -phenyl-,

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 (R^*,R^*) - (9CI) (CA INDEX NAME)

Relative stereochemistry.

L13 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1984:562548 CAPLUS

DOCUMENT NUMBER:

101:162548

TITLE:

Substituted cysteamine ligands and their complexes

with molybdenum(VI)

AUTHOR(S):

Corbin, James L.; Miller, Kenneth F.; Pariyadath,

Narayanakutty; Heinecke, Jay; Bruce, Alice E.;

Wherland, Scot; Stiefel, Edward I.

CORPORATE SOURCE:

Charles F. Kettering Res. Lab., Yellow Springs, OH,

45387, USA

SOURCE:

Inorganic Chemistry (1984), 23(21), 3404-12

CODEN: INOCAJ; ISSN: 0020-1669

DOCUMENT TYPE:

Journal

LANGUAGE:

English

New bidentate cysteamine-based ligands containing Me-substituted C and N atoms were prepared Together with known ligands the following complete set has now been prepared: NH2CH2CH2SH, MeNHCH2CH2SH, Me2NCH2CH2SH, NH2C(CH3)2CH2SH. MeNHC(CH3)2CH2SH, Me2NC(CH3)2CH2SH, NH2CH2C(CH3)2SH, MeNHCH2C(CH3)2SH, Me2NCH2C(CH3)2SH, NH2C(CH3)2C(CH3)2SH, MeNHC(CH3)2C(CH3)2SH, and Me2NC(CH3)2C(CH3)2SH. Five of the ligands in this series are new, and their preparation is reported in detail. Also RNHCH2C(CH3)2SH ligands (R = iso-Pr and iso-Bu) are reported for the 1st time. These ligands, LH, were reacted in MeOH with MoO2(acac)2 (Hacac = acetylacetone). In most cases MoO2L2 resulted. However, in some cases this complex appears to be unstable. The prepns. and spectroscopic properties of the complexes are reported. The low values of v(Mo-0) for some of the complexes are correlated either with H bonding or with the presence of a skew-trapezoidal-bipyramidal structure. Likewise, electronic absorption spectra differ for complexes with octahedral as opposed to skew-trapezoidal-bipyramidal structures. For a given complex, 170 and 1H NMR spectroscopies are consistent with adoption in solution of the same octahedral or skew-trapezoidal-bipyramidal structure that is found in the solid state. Further, the skew-trapezoidal-bipyramidal complexes display temperature-dependent NMR spectra that are interpreted in terms of configurational averaging probably caused by Mo-N bond cleavage.

IT 91229-44-6P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 91229-44-6 CAPLUS

CN 2-Butanethiol, 3-(dimethylamino)-2,3-dimethyl-, hydrochloride (9CI) (CA INDEX NAME)

● HCl

L13 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

CORPORATE SOURCE:

ACCESSION NUMBER: 1982:216922 CAPLUS

DOCUMENT NUMBER:

96:216922

TITLE:

Thioammonium ions. Azasulfenylation reactions

AUTHOR(S):

Caserio, Marjorie C.; Kim, Jhong K.

SOURCE:

Dep. Chem., Univ. California, Irvine, CA, 92717, USA

Journal of the American Chemical Society (1982

), 104(11), 3231-3

CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE:

Journal English

LANGUAGE: OTHER SOURCE(S):

CASREACT 96:216922

Attempts to prepare elusive (alkylthio)ammonium ions have given evidence for their formation as reactive intermediates in alkylation of sulfenamides and in the sulfenylation of amines. In the presence of alkenes, (alkylthio)ammonium ions are trapped as 1-ammonium-2-thio adducts formed by anti-addition These same adducts were obtained more conveniently in 2 steps: addition of (alkylthio) sulfonium ions to the alkene, followed by displacement of the sulfonium group by an amine nucleophile. displacement step proceeds by the reversible dissociation of 1-sulfonium-2-thio adducts to episulfonium ions. The displacement reaction is general because the episulfonium ion can be trapped by a variety of nucleophiles.

IT81206-95-3P 81206-97-5P

> RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 81206-95-3 CAPLUS

CN 2-Butanaminium, N,N,N-trimethyl-3-(methylthio)-, (R*,R*)-, tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 81206-94-2 CMF C8 H20 N S

Relative stereochemistry.

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CM 2

CRN 14874-70-5

CMF B F4 CCI CCS

81206-97-5 CAPLUS RN

2-Butanaminium, N,N,N-trimethyl-3-(methylthio)-, (R*,S*)-, CN tetrafluoroborate(1-) (9CI) (CA INDEX NAME)

CM

CRN 81206-96-4 CMF C8 H20 N S

Relative stereochemistry.

2 -CM

CRN 14874-70-5 CMF B F4

CCI CCS

L13 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:574952 CAPLUS

DOCUMENT NUMBER: 91:174952

TITLE: Thermolysis of Mannich bases from β -oxo

sulfoxides, benzaldehyde and secondary amines

AUTHOR(S): Boehme, Horst; Clement, Bernd

CORPORATE SOURCE: Pharm.-Chem. Inst., Philipps-Univ., Marburg, 355, Fed.

Rep. Ger.

SOURCE: Archiv der Pharmazie (Weinheim, Germany) (1979

), 312(6), 531-4

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CODEN: ARPMAS; ISSN: 0365-6233

DOCUMENT TYPE: LANGUAGE: Journal German

GΙ

AB Stable Mannich bases I [R = Me, R2 = (CH2)4, CH2CH2OCH2CH2] were obtained as mixts. of 4 diastereoisomeric forms, stipulated by the 3 chiral centers, by condensation of PhCOCH2S(O)Me with PhCHO and HNR2. Amine elimination occurred on heating I (R = Me) >180° to give a single (E) diastereomer of the propenone II.

TT 71679-36-2P 71698-77-6P 71698-78-7P 71698-79-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and thermolysis of)

RN 71679-36-2 CAPLUS

CN 1-Propanone, 3-(dimethylamino)-2-(methylsulfinyl)-1,3-diphenyl-, [2R*(R*),3R*]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 71698-77-6 CAPLUS

CN 1-Propanone, 3-(dimethylamino)-2-(methylsulfinyl)-1,3-diphenyl-, [2R*(S*),3R*]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 71698-78-7 CAPLUS

CN 1-Propanone, 3-(dimethylamino)-2-(methylsulfinyl)-1,3-diphenyl-,

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[2R*(R*),3S*] - (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 71698-79-8 CAPLUS

CN 1-Propanone, 3-(dimethylamino)-2-(methylsulfinyl)-1,3-diphenyl-, [2R*(S*),3S*]-(9CI) (CA INDEX NAME)

Relative stereochemistry.

L13 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1979:97354 CAPLUS

DOCUMENT NUMBER: 90:97354

TITLE: Studies on chemical protectors against radiation. XX.

Radioprotective mechanism of phenethylamine compounds

AUTHOR(S): Shinoda, Masato; Onoda, Makoto; Sato, Kazunori;

Nemoto, Kyuichi; Kamogawa, Asahi

CORPORATE SOURCE: Hoshi Coll. Pharm., Tokyo, Japan

SOURCE: Yakugaku Zasshi (1978), 98(11), 1512-17

CODEN: YKKZAJ; ISSN: 0031-6903

Journal DOCUMENT TYPE:

LANGUAGE: Japanese

GΙ

I, R^1 and $R^2 = H$, OH, SH, SSO₃H, or SC(:NH)NH₂, R^3 and R^4 = H or Me, R^5 = H, Ac, alkyl, NH₂, or Bz, R6 and R7 = H or OH

ΑВ Correlation between radioprotection by phenethylamines (I) and anoxia was

10807710.trn Page 24 14:27 examined from their action on femoral artery blood flow and on blood pressure of the rat common carotid and isolated dorsal arteries. The radioprotection mechanism by vasoconstriction-anoxia was present in the phenethylamine-type and ephedrine-type compds., and possible participation of anoxia was suggested in some of S-ephedrine- and isothiourea-type compds. In disulfide- and thiosulfate-type compds., mechanisms other than anoxia were considered to be present.

IT 942-48-3

> RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (radioprotective activity of)

RN 942-48-3 CAPLUS

Benzenemethanethiol, α -[1-(dimethylamino)ethyl]-, [S-(R*,R*)]- (9CI) CN (CA INDEX NAME)

Absolute stereochemistry.

L13 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1978:31877 CAPLUS

DOCUMENT NUMBER:

88:31877

TITLE:

Studies on chemical protectors against radiation. XVII. Radioprotective activities of phenethylamine

compounds

AUTHOR (S):

Shinoda, Masato; Ohta, Setsuko; Takagi, Yoshinari

CORPORATE SOURCE:

SOURCE:

Hoshi Coll. Pharm., Tokyo, Japan

Yakugaku Zasshi (1977), 97(10), 1117-24

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE:

Journal

LANGUAGE:

Japanese

The relation between chemical structure and radioprotective activity was examined with 80 phenethylamine compds. and various amines. A strong radioprotective effect was shown by phenethylamine-HCl [156-28-5] and by tyramine-HCl [60-19-5], dopamine-HCl [62-31-7], norepinephrine [51-41-2], and epinephrine-HCl [55-31-2], which have a phenolic hydroxyl in their mol., but the corresponding amino acids were ineffective. Only a weak effect was shown by the ephedrine isomers, but a markedly strong effect was shown by compds. with a side chain substituted with SH, isothiourea, or thiosulfuric acid, and by the S-S ephedrine compds. Comparison of the isomers of these compds. showed that the L-erythro type compds. were more effective.

ΙT 942-50-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(radioprotective activity of)

942-50-7 CAPLUS RN

CN Benzenemethanethiol, α -[1-(dimethylamino)ethyl]-, hydrochloride. [S-(R*,R*)]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

L13 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1965:410290 CAPLUS

DOCUMENT NUMBER: 63:10290

ORIGINAL REFERENCE NO.: 63:1821h,1822f-h,1823a-c

TITLE: Potential radiation-protective agents. III. Mercapto

analogs related to ephedrine

AUTHOR(S): Bhat, K. Venkatramana; McCarthy, Walter C.

CORPORATE SOURCE: Univ. of Washington, Seattle

SOURCE: Journal of Pharmaceutical Sciences (1965),

54(2), 225-8

CODEN: JPMSAE; ISSN: 0022-3549

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 63:10290

cf. CA 62, 5214f. Since certain sympathomimetic amines have been shown to possess radiation protective activity, the mercapto analogs related to ephedrine were selected for investigation. (+)-PhCHClCHMeNHMe.HCl (I.HCl) (19 g.) and 21.4 g. Na2S2O3.5H2O dissolved in 40 ml. hot H2O and the solution let stand 1 hr., heated 2 hrs. on a water bath, and cooled gave 20.5 g. Bunte salt PhCH(S2O3-)CHMeN+H2Me (II), m. 186-7° (H2O), [\alpha]25D 221° (c 1, H2O). To 22 g. (+)-I.HCl in 150 ml. anhydrous MeOH was added 23 ml. MeOH-MeONa (10% Na weight/volume), followed by MeCOSNa solution [prepared from 7.5 ml. MeCOSH and 23 ml. MeOH-MeONa (10% Na weight/volume)], the mixture refluxed 3 hrs. and filtered, and the filtrate evaporated in vacuo (rotary evaporator) to give 9.5 g. (+)-PhCH(SH)CHMeNMeAc (III), m. 112-13° (dilute EtOH), [\alpha]25D 190° (c 1, EtOH). Oxidation of (+)-III with iodine gave (+)-(AcMeNCHMeCHPhS)2 (IV), m. 172-3° (dilute EtOH), [\alpha]25D 390° (c 1, 95% EtOH).

(+)-III (5.6 g.) in 50 ml. EtOH refluxed 3 hrs. with 25 ml. concentrated HCl and

the solution evaporated in vacuo (rotary evaporator) gave 4.5 g. unchanged (+)-III, m. 112-13° (dilute EtOH). (+)-III (5.6 g.) in 100 ml. 20% aqueous NaOH refluxed 24 hrs., cooled, and saturated with CO2gave [by air oxidation

of (+)-III] 3.2 g. (+)-IV, m. 172-3° (dilute EtOH). (+)-IV (4.5 g.) extracted from the thimble of a Soxhlet extractor by a refluxing solution of 1.8

g. LiAlH4in 275 ml. Et20 [after 72 hrs. all (+)-IV had been extracted], 0.9 ml. H2O added dropwise with stirring, then 4.9 ml. concentrated HCl, the precipitate

filtered off, extracted with Et20, the extract filtered, the combined filtrates dried and evaporated in vacuo (rotary evaporator), and the semisolid residue recrystd. (EtOH) gave 2 g. (EtMeNCHMeCHPhS)2, m. 160-1°, [α]25D 715° (c 1, C6H6). (+)-I.HCl (22 g.) in 200 ml. absolute EtOH treated with 46 ml. EtOH-EtONa (5% Na weight/volume), followed by 16 g. EtOCS2K, and the mixture heated 3 hrs. on a steam bath and worked up gave 6

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g. (-)-3,4-dimethyl-5-phenylthiazolidine-2-thione (V), m. 65-6^{\circ}
     (iso-Pr2O), [\alpha] 25D -155° (c 1, EtOH), which was resistant to
     hydrolysis by boiling 48% HBr. (-)-V (8 g.) in 200 ml. anhydrous Et20 added
     dropwise to 3.79 g. LiAlH4 in 100 ml. Et20 and the solution refluxed 90 hrs.,
     hydrolyzed by adding dropwise 7.2 ml. H2O and 9.7 ml. concentrated HCl, and
     worked up gave 4.5 g. (+)-PhCH(SH)CHMeNMe2, m. 75-6° (absolute EtOH),
     [\alpha] 25D 150° (c 1, 0.1N HCl), which oxidized in EtOH with 1%
     iodine solution gave (+)-(Me2NCHMeCHPhS)2, m. 196-7° (EtOH),
     [\alpha] 25D 300° (c 1, 0.1N HCl). Chloral (15 g.) added dropwise
     to 16.5 g. (-)-ephedrine (VI) with stirring and ice cooling and the mixture
     stirred 2 hrs. at room temperature and concentrated in vacuo (rotary
evaporator) gave-
     a mixture of oil and crystalline solid; recrystn. of the solid from absolute
EtOH
     gave 1 g. (-)-VI.HCl, m. 217-18°; distillation of the oil gave 6 q.
     N-formyl-(-)-ephedrine (VII), b1 168-74^{\circ}, v 1665 cm.-1 Excess
     SOC12added dropwise to VII with stirring and ice cooling and the mixture
     stirred 1.5 hrs. at room temperature and worked up gave (+)-pseudoephedrine-HCl
     (VIII.HCl), m. 182-3^{\circ}, [\alpha] 25D 60° (c 1, H20). SOC12
     (1.13 ml.) added dropwise to an ice cold solution of 2.07 g.
     N-acetylephedrine in 100 ml. CHCl3 and the mixture stirred 30 min. at room
     temperature, heated 30 min. on a water bath, and worked up gave 1.5 g.
     O-acetyl-(+)-pseudo-ephedrine-HCl, m. 185-6° (iso-PrOH),
     [\alpha] 25D 98° (c 1, H2O). A mixture of 10.7 g. (-)-VI.H2SO4and 12
     g. 4-MeC6H4SO2Cl (IX) shaken with 60 ml. 10% aqueous NaOH and cooled in ice
     gave 13 g. N-p-tolylsulfonyl-(-)-ephedrine (X), m. 117-18° (60%
     EtOH), [\alpha]25D -27.5° (c 1, 95% EtOH), v 3570 cm.-1 Similar
     tosylation of VIII.HCl gave 84% N-p-tolylsulfonyl-(+)-pseudo-ephedrine, m.
     93-4.5°, [\alpha] 25D 25° (c 1, 95% EtOH). X (3.2 g.) and
     2.5 g. IX in 8 ml. C5H5N stirred 4 hrs. at room temperature and worked up gave
     94% unchanged X, m. 117-18°. When the mixture was heated at
     80°, unchanged X was also recovered. Refluxing the mixture gave an
     oil, which could not be crystallized Neither II, when administered to mice in a
     dosage of 51-150 mg./kg., nor 3,4-dimethyl-5-phenyl-2-iminothiazolidine-
     HCl (McCarthy and Ho, CA 56, 8612f), when administered to mice in a dose
     of 50 mg./kg, or less, showed protective activity against radiation.
IT
     91341-40-1, \alpha-Toluenethiol, \alpha-[1-(dimethylamino)ethyl]-
     , (+)-
        (preparation of)
RN
     91341-40-1 CAPLUS
CN
     \alpha-Toluenethiol, \alpha-[1-(dimethylamino)ethyl]- (6CI, 7CI) (CA
     INDEX NAME)
Me<sub>2</sub>N Ph
Me-CH-CH-SH
L13 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
                         1965:74011 CAPLUS
DOCUMENT NUMBER:
                          62:74011
ORIGINAL REFERENCE NO.:
                         62:13088a-d
                         1-Substituted 2-aminoethane derivatives
TITLE:
INVENTOR(S):
                         Takamatsu, Hideji; Nishimura, Haruki
PATENT ASSIGNEE(S):
                         Dainippon Pharmaceutical Co., Ltd.
```

DOCUMENT TYPE:

SOURCE:

2 pp.

Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

AΒ

PATENT NO. KIND DATE APPLICATION NO. DATE 19641015 JP ---------JP 39022953 19610415 <--

A mixture of 4 g. erythro-1-phenyl-1-dimethylamino-2-chloropropane-HCl (I) and 5.9 g. K thioacetate is refluxed in 60 cc. MeOH 30 min. to give 2.0 g. erythro-1-phenyl-1-mercapto-2-dimethylaminopropane (Ia), b7 109-12°. I (1.9 g.) is refluxed in 30 cc. 10% NaOH 2.5 hrs. to give 1.1 g. erythro-1-phenyl-2-dimethylaminopropanol (hydrochloride m. 206-7°). I (3.3 g.) is heated with 3.55 g. Na2S2O3, in 10 cc. H2O with steam 15 min. to give erythro-1-phenyl-2-dimethylaminopropane-1thiosulfuric acid (II) m. 207-8° (decomposition). II (3 g.) is refluxed in 30 cc. 10% HCl 1.5 hrs., the product alkalized with Na2CO3 and extracted with ether to give 1.8 g. Ia, b3 80°. Similarly, other compds. prepared were (starting material, reagent and yield, name, and m.p. of the product given): 1-phenyl-1-dimethylamino-2-chloroethane-HCl (III) 1.5 g., K thioacetate, 1.2 g. 1-phenyl-1-mercapto-2-dimethylaminoethane-HCl, 190° (decomposition); III 8 g., Na2S2O3, 8 g., 1-phenyl-2-dimethylaminoethane-1-thiosulfuric acid, 208° (decomposition); III 2 g., Na2S reagent (7.2 g. Na2S + 10 cc. H2O + 20 cc. MeOH saturated with H2S) (reaction condition heated with steam 30 min.), 1.1 g., 1-phenyl-1-mercapto-2-dimethylaminoethane hydrochloride, 191° (decomposition); III 1 g., 10% NaOH, 0.3 g., 1-phenyl-2-dimethylaminoethanol-HCl, --; threo-1-phenyl-1-methylamino-2-chloropropane-HCl (IV) 1 g., Na2S reagent, 0.6 g., threo-1-phenyl-1-mercapto-2-methylaminopropane, -- (b2 93-6°); IV 5 g., Na2S2O3, 4 g., threo-1-phenyl-2-methylaminopropane-1-thiosulfuric acid (V), 190° (decomposition); erythro isomer of IV 1.85 g., Na2S2O3, 1.7 g. erythro isomer of V, 239° (decomposition); erythro isomer of IV 1.3 q., K thioacetate, acetyl derivative (VI) of erythro-1-phenyl-1-mercapto-2-methylaminopropane (VII), -- (VI is heated with 20% HCl in a sealed tube at 140-5° 3 hrs. to give 0.4 g. VII, b6 104°). These compds. are useful as antispasmodics. 942-47-2, α -Toluenethiol, α -[1-(dimethylamino)ethyl]-,

ΙT erythro-

(preparation of)

RN 942-47-2 CAPLUS

CN α -Toluenethiol, α -[1-(dimethylamino)ethyl]-, erythro- (8CI) (CA INDEX NAME)

Relative stereochemistry.

L13 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1965:8905 CAPLUS

DOCUMENT NUMBER: 62:8905 ORIGINAL REFERENCE NO.: 62:1588c-e

TITLE: Phenylmercaptoalkylamines. IV. Configurations of N-alkyl-1-phenyl-2-chloropropylamines and their

rearrangements with nucleophilic reagents

AUTHOR(S): Nishimura, Haruki; Takamatsu, Hideji CORPORATE SOURCE: Dainippon Pharm. Co., Ltd., Osaka, Japan Yakugaku Zasshi (1964), 84(9), 817-24 SOURCE:

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

Treatment of DL-erythro-1-methylamino-1-phenyl-2-propanol (I) with SOC12 gives erythro-N-methyl-1-phenyl-2-chloropropylamine-HCl (II), m. 210° (decomposition), while treatment of I with PCl5 gives the corresponding threo compound (IIa), m. 150-3°. Na2S2O3 and II and IIa gives erythro-1-phenyl-2-methylaminopropylthiosulfonic acid (III) [m. 239° (decomposition)] and the corresponding threo compound (IIIa) [m. 199-200° (decomposition)], resp. This reaction proceeds with two Walden inversions via the intermediate aziridinium compound Treatment of II and IIa with NaOH affords DL-threo-3-phenyl-1,2-dimethylaziridine (picrate m. 142-4°) and the corresponding erythro compound (picrate m. 97.5-8.5°), resp. Also is prepared erythro-N,N-dimethyl-1-phenyl-2-.chloropropylamine-HCl (m. 169-70°) by chlorination of erythro-1-dimethylamino-1-phenyl-2-propanol-HCl with PCl5; no threo-type Cl derivative is obtained.

IT 942-47-2, α -Toluenethiol, α -[1-(dimethylamino)ethyl]-, erythro-

(preparation of)

RN 942-47-2 CAPLUS

 α -Toluenethiol, α -[1-(dimethylamino)ethyl]-, erythro- (8CI) (CA INDEX NAME)

Relative stereochemistry.

L13 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1965:8904 CAPLUS

DOCUMENT NUMBER: 62:8904 ORIGINAL REFERENCE NO.: 62:1588a-c

TITLE: Phenylmercaptoalkylamines. III. Hofmann degradation of

1-phenyl-2-dimethylaminopropanethiol quaternary salts

AUTHOR (S): Nishimura, Haruki; Takamatsu, Hideji CORPORATE SOURCE: Dainippon Pharm. Co., Ltd., Osaka, Japan SOURCE: Yakugaku Zasshi (1964), 84(9), 811-17

CODEN: YKKZAJ; ISSN: 0031-6903 DOCUMENT TYPE: Journal

LANGUAGE: Japanese

AB Na2S2O3 and L-(+)-threo-N, N-dimethyl-1-chloro-1-phenyl-2-propylamine-HCl, followed by hydrolysis, gave (+)-1-phenyl-2-dimethylaminopropanethiol (I), which was then converted into the methiodide and treated with NaOH to form (+)-1,2-epithiopropylbenzene (II), b10 100°, which was polymerized to give a polymer, m. 255-6°. Treatment of D-(+)-erythro-1,2epoxypropylbenzene with KSCN gave L-(-)-erythro-1,2-epithiopropylbenzene, b7 92-3°, $[\alpha]$ 20D-21.4° (c 2.21, MeOH), which was found to be the antipode of II. II belongs to the D-(+)-erythro series and I,

to the L-(+)-threo series. The (-)-amino thiol, similarly derived from L-(-)-erythro-N,N-dimethyl-1-chloro-1-phenyl-2-propylamine-HCl, was found to belong to the L-(-)-erythro series and that D-(+)-threo-1,2-epithiopropylbenzene (III) is derived from it. The steric configuration of II and III was also determined from their N.M.R. spectra. Hofmann degradation of the quaternary salt of 1-phenyl-2-dimethylaminoethanethiol also gave the same result. II and III underwent desulfurization by heating to give trans- β -methylstyrene.

IT 942-50-7, α -Toluenethiol, α -[1-(dimethylamino)ethyl]-, hydrochloride, L(+)-threo-(preparation of)

RN 942-50-7 CAPLUS

CN Benzenemethanethiol, α -[1-(dimethylamino)ethyl]-, hydrochloride, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

● HCl

L13 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1965:8903 CAPLUS

DOCUMENT NUMBER: 62:8903

ORIGINAL REFERENCE NO.: 62:1587h,1588a

TITLE: Phenylmercaptoalkylamines. II. Configuration of

1-phenyl-2-alkylaminopropanethiol

AUTHOR(S): Nishimura, Haruki; Takamatsu, Hideji
CORPORATE SOURCE: Dainippon Pharm. Co., Ltd., Osaka, Japan
Yakugaku Zasshi (1964), 84(9), 806-11

CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal LANGUAGE: Japanese

AB From the strength of the H bond between N and SH in the ir absorption spectra of (+) - (I) and (-)-1-phenyl-2-dimethylaminopropanethiol (Ia), obtained by treating Na2S2O3 with L-(+)-threo- (II) and L-(-)-erythro-N,N-dimethyl-1-chloro-1-phenyl-2-propylamine-HCl (IIa) followed by hydrolysis, it was assumed that I belongs to the threo series and Ia, to the erythro series. I is also obtained by treating AcSK or NaSH with II or by treating (NH2)2CS with II followed by alkali treatment of the isothiuronium salt formed. Similarly, the steric configurations of 2 1-phenyl-2-methylaminopropanethiols and 2-imino-3,4-dimethyl-5-phenylthiazolidines, derived from L-(+)-threo-(III) and L-(-)-erythro-N-methyl-1-chloro-1-phenyl-2-propylamine hydrochlorides (IIIa) by use of foregoing reagents, were determined Use of nucleophilic reagents to II, IIa, III, and IIIa afforded derivs. without change in their steric configuration.

IT 942-48-3, α -Toluenethiol, α -[1-(dimethylamino)ethyl]-, L(+)-threo-942-49-4, α -Toluenethiol, α -[1-(dimethylamino)ethyl]-, L(-)-erythro-942-50-7,

LANGUAGE:

Unavailable

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. --------------------US 3131189 19640428 US 19611016 <--

GΙ For diagram(s), see printed CA Issue.

AΒ Carbyl sulfate (I), prepared by the reaction of 2 moles SO3 and 1 mole ethylene, reacted with a tertiary amine to form betaines. Thus 1.5 g. pyridine (II) in 10 ml. ethylene dichloride was added to 3 g. I in 30 ml. ethylene dichloride (the reaction was exothermic), the liquid decanted from the precipitate, and the precipitate covered with petr. ether and cooled to give

IIa (R = R1 = H), m. 250-5° (HCONMe2). I was also treated with the following to form betaines: quinoline, acridine, trimethylamine, and dimethylaniline (III). Also reported without details were: IIa (R = Ph, R1 = H); Et3NCHEtCH2SO3; IIa (R = R1 = Me); and PhNMe2CMe2CMe2SO3. These compds. are useful intermediates for the preparation of detergents. (Cf. U.S. 2,666,788, or Brit. 686,061.)

IT 97176-62-0, Ammonium, dimethylphenyl(1,1,2-trimethyl-2sulfopropyl), hydroxide, inner salt (preparation of)

RN 97176-62-0 CAPLUS

CN Dimethylphenyl(1,1,2-trimethyl-2-sulfopropyl)ammonium hydroxide, inner salt (7CI) (CA INDEX NAME)

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L14 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2001:821889 CAPLUS

DOCUMENT NUMBER:

136:118295

TITLE:

Stereoselective synthesis of δ -lactones from

5-oxoalkanals via one-pot sequential acetalization, Tishchenko reaction, and lactonization by cooperative

catalysis of samarium ion and mercaptan

AUTHOR(S):

Hsu, Jue-Liang; Fang, Jim-Min

CORPORATE SOURCE:

Department of Chemistry, National Taiwan University,

Taipei, 106, Taiwan

SOURCE:

Journal of Organic Chemistry (2001), 66(25), 8573-8584

8573-8584 CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

English

LANGUAGE:

By the synergistic catalysis of samarium ion and mercaptan, a series of 5-oxoalkanals was converted to (substituted) δ -lactones in efficient and stereoselective manners. This one-pot procedure comprises a sequence

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of acetalization, Tishchenko reaction and lactonization. The deliberative use of mercaptan, by comparison with alc., is advantageous to facilitate the catalytic cycle. The reaction mechanism and stereochem. are proposed and supported by some exptl. evidence. Such samarium ion/mercaptan cocatalyzed reactions show the feature of remote control, which is applicable to the asym. synthesis of optically active δ -lactones. This study also demonstrates the synthesis of two insect pheromones, (2S,5R)-2-methylhexanolide and (R)-hexadecanolide, as examples of a new protocol for asym. reduction of long-chain aliphatic ketones.

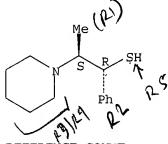
IT 166031-49-8P

RL: SPN (Synthetic preparation); PREP (Preparation) (one-pot sequential acetalization, Tishchenko reaction, and lactonization by the promotion of samarium ion and mercaptans in stereoselective synthesis of δ -lactones from 5-oxoalkanals)

RN 166031-49-8 CAPLUS

CN 1-Piperidineethanethiol, β -methyl- α -phenyl-, $(\alpha R, \beta S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT:

104 THERE ARE 104 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L14 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:508661 CAPLUS

DOCUMENT NUMBER: 135:256816

TITLE: A purely synthetic, diversity amenable version of

norephedrine thiols for the highly enantioselective

diethylzinc addition to aldehydes

AUTHOR(S): Jimeno, Ciril; Moyano, Albert; Pericas, Miquel A.;

Riera, Antoni

CORPORATE SOURCE: Unitat Recerca Sintesi Asimetrica, Dep. Quim. Org.,

Universitat de Barcelona, Barcelona, E-08028, Spain

SOURCE: Synlett (2001), (7), 1155-1157

CODEN: SYNLES; ISSN: 0936-5214

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:256816

AB A new β -amino thiol arising from purely synthetic yet enantiopure amino alcs. has been prepared and successfully used in the addition of diethylzinc to aromatic aldehydes, yielding secondary alcs. in ee's up to

IT 361543-74-0P

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);

(enantioselective diethylzinc addition to aldehydes catalyzed by $\beta\text{-amino thiols})$

RN 361543-74-0 CAPLUS

CN 1-Piperidineethanethiol, α -phenyl- β -[(triphenylmethoxy)methyl]-, (α R, β S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT:

29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1999:296019 CAPLUS

DOCUMENT NUMBER:

130:312007

TITLE:

A concise synthesis of unnatural (+)-5-epi-nojirimycin-

 δ -lactam via asymmetric reduction of a

meso-imide

AUTHOR(S):

Kang, Jahyo; Lee, Choon Woo; Lim, Geun Jho; Cho, Byung

Tae

CORPORATE SOURCE:

Department of Chemistry, Sogang University, Seoul,

121-742, S. Korea

SOURCE:

Tetrahedron: Asymmetry (1999), 10(4),

657-660

CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE (S):

CASREACT 130:312007

Nojirimycin- δ -lactam skeleton was synthesized by asym. reduction of a cyclic triacetyloxy meso imide with a chiral β -amino thiol ligand. The resulting product was converted to unnatural (+)-5-epi-nojirimycin- δ -lactam.

IT 166031-49-8

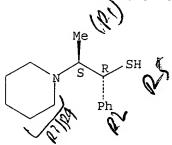
RL: RCT (Reactant); RACT (Reactant or reagent)

(a concise synthesis of unnatural (+)-epi-nojirimycin- δ -lactam via asym. reduction of a meso-imide)

RN 166031-49-8 CAPLUS

CN 1-Piperidineethanethiol, β -methyl- α -phenyl-, $(\alpha R, \beta S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT:

18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS

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Page 34

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1998:801743 CAPLUS

DOCUMENT NUMBER:

130:153758

TITLE:

Asymmetric synthesis of (diene) Fe(CO)3 complexes by a

catalytic enantioselective alkylation using

dialkylzincs

AUTHOR (S):

Takemoto, Yoshiji; Baba, Yasutaka; Honda, Asami; Nakao, Syusuke; Noguchi, Izumi; Iwata, Chuzo; Tanaka,

Tetsuaki; Ibuka, Toshiro

CORPORATE SOURCE:

Graduate School of Pharmaceutical Sciences, Kyoto

University, Kyoto, 606-8501, Japan

SOURCE:

Tetrahedron (1998), 54(51), 15567-15580 CODEN: TETRAB; ISSN: 0040-4020

Elsevier Science Ltd.

PUBLISHER: DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 130:153758

The reaction of meso-(2,4-hexadien-1,6-dial)Fe(CO)3 complex (1) with several alkylzincs in the presence of 50 mol% of (S)-(+)-diphenyl(1methylpyrrolidin-2-yl) methanol proceeded with high enantiotopic group- and diastereotopic face-selectivity to give (2R,6S)-alc. complexes as major products, except in the case with dimethylzinc (>90% de and >98% ee). On the other hand, the methylation of 1 with Me2Zn proceeded with high enantioselectivity by adding 1.8 equivalent of Ti(Oi-Pr)4 in the presence of 3 mol% of (S,S)-1,2-bis(trifluoromethylsulfonamide)cyclohexane (82% de, 96% The enantioselective alkylation was also applied to the kinetic resolution of racemic (sorbic aldehyde) Fe(CO)3 complex.

IΤ 166031-49-8

RL: CAT (Catalyst use); USES (Uses)

(asym. synthesis of diene iron tricarbonyl complexes by catalytic enantioselective alkylation using dialkylzincs)

RN 166031-49-8 CAPLUS

CN 1-Piperidineethanethiol, β -methyl- α -phenyl-,

 $(\alpha R, \beta S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT:

36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1998:632164 CAPLUS

DOCUMENT NUMBER:

129:343594

TITLE:

Structural chemistry of methyl- and allylpalladium(II) complexes containing chiral thioether auxiliaries

AUTHOR (S):

Boog-Wick, Karin; Pregosin, Paul S.; Woerle, Michael;

Albinati, Alberto

CORPORATE SOURCE:

Lab. Anorganische Chem., ETH Zentrum Zuerich, Zurich.

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CH-8092, Switz.

SOURCE: Helvetica Chimica Acta (1998), 81(9),

1622-1633

CODEN: HCACAV; ISSN: 0018-019X Verlag Helvetica Chimica Acta AG

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 129:343594

The synthesis and mol. structures of two [PdCl(Me)] complexes each containing a different chiral N,S-chelate based on {[(dihydrooxazolyl)phenyl]methyl}t hioglucose backbones, i.e., chloro($\{2-[(4S)-4,5-dihydro-4-isopropyloxazol-2-yl-\kappa N]phenyl\}methyl 2,3,4,6-tetra-O-acetyl-1-(thio-<math>\kappa S$)-

 β -D-glucopyranoside) methylpalladium(II) and a [Pd(η 3-C3H5)(PS)]+ cation in which the P,S-chelate stems from a phosphinoferrocene and

thioephedrine-derived thioether donor as well as [(S)-1-(diphenylphosphino-

 κP) -2-((1R)-1-{[(1R,2S)-1-phenyl-2-(piperidin-1-yl)propyl]thio-

κS}ethyl) ferrocene] (η3-prop-2-enyl) palladium

trifluoromethanesulfonate are reported. In the methylpalladium compds.

the thioglucose- κS moiety is pseudo-axial, whereas in the allyl complex, the thioephedrine- κS moiety is markedly pseudo-equatorial.

It is suggested, based on these results, that the shape (chiral pocket) of such coordinated chiral thioethers may not be readily predictable.

IT 166031-49-8

PUBLISHER:

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of methyl- and allylpalladium complexes with chiral thioether moieties)

RN 166031-49-8 CAPLUS

CN 1-Piperidineethanethiol, β -methyl- α -phenyl-,

 $(\alpha R, \beta S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L14 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:482774 CAPLUS

DOCUMENT NUMBER: 129:216335

TITLE: Asymmetric synthesis of a new cylindrically chiral and

air-stable ferrocenyldiphosphine and its application

to rhodium-catalyzed asymmetric hydrogenation

AUTHOR(S): Kang, Jahyo; Lee, Jun Hee; Ahn, Sung Hoon; Choi, Jung

Sun

CORPORATE SOURCE: Department of Chemistry and Organic Chemistry Research

Center, Sogang University, Seoul, 121-742, S. Korea

SOURCE: Tetrahedron Letters (1998), 39(31),

5523-5526

CODEN: TELEAY; ISSN: 0040-4039

14:27

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 129:216335

10807710.trn Page 36

The novel, cylindrically chiral air-stable (S,S)-1,1'-bis(diphenylphosphino)-2,2'-di-3-pentylferrocene [(S,S)-FerroPHOS] ligand was prepared and its in situ rhodium complexes have been applied to asym. hydrogenation. High reactivity and selectivity have been realized in hydrogenation of various dehydroamino acid derivs.

IT 166031-49-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(asym. synthesis of a new cylindrically chiral and air stable ferrocenyldiphosphine and its application to rhodium catalyzed asym. hydrogenation)

RN 166031-49-8 CAPLUS

CN 1-Piperidineethanethiol, β -methyl- α -phenyl-, $(\alpha R, \beta S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:362994 CAPLUS

DOCUMENT NUMBER: 129:122430

TITLE: Examination of bidentate thiol derivatives as ligands

in the Ni-catalyzed asymmetric conjugate addition of

diethylzinc to enones

AUTHOR(S): Kang, Jahyo; Kim, Joo In; Lee, Jae Hoon; Kim, Hyo -

Jung; Byun, Yong Hun

CORPORATE SOURCE: Department of Chemistry, Sogang University, Seoul,

121-742, S. Korea

SOURCE: Bulletin of the Korean Chemical Society (1998

), 19(5), 601-603

CODEN: BKCSDE; ISSN: 0253-2964

PUBLISHER: Korean Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:122430

GΙ

AB Asym. conjugate addition of diethylzinc to (E)-PhCH:CHCOPh was catalyzed by Ni(II) complexes, e.g. Ni(acac)2 or NiCl2, in presence of bidentate thiol

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ligands, e.g. I. The major enantiomer obtained was (R)-PhCHEtCH2COPh.

IT 166031-49-8

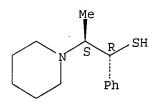
RL: CAT (Catalyst use); USES (Uses)

(asym. conjugate addition of diethylzinc to enones catalyzed by Ni(II) and bidentate thiol ligands)

166031-49-8 CAPLUS RN

1-Piperidineethanethiol, β -methyl- α -phenyl-, CN $(\alpha R, \beta S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1998:272187 CAPLUS

DOCUMENT NUMBER:

129:54427

TITLE:

The interaction of chiral amino thiols with organozinc

reagents and aldehydes: a mechanism of amino

thiol-catalyzed addition of organozinc reagents to

aldehydes

AUTHOR (S):

Kang, Jahyo; Kim, Jin Bum; Kim, Jeeyoung; Lee,

Duckhwan

CORPORATE SOURCE:

Department of Chemistry, Sogang University, Seoul,

121-742, S. Korea

SOURCE:

Bulletin of the Korean Chemical Society (1998

), 19(4), 475-481

CODEN: BKCSDE; ISSN: 0253-2964

PUBLISHER:

Korean Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AR Details of various equilibrium involved in the reactions of oxaza- and thiazazincolidine catalysts, generated from either β -amino alc. or β -amino thiol, with benzaldehyde were studied by colliqueive measurements. The coordination of diethylzinc prior to the coordination of aldehyde is essential for high enantioselectivity of the thiol catalyzed reaction. The probable origin of asym. nonlinearity is also presented.

IΤ 166031-49-8 188711-05-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(mechanism of amino thiol-catalyzed addition of organozinc reagents to aldehydes)

166031-49-8 CAPLUS RN

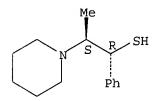
CN 1-Piperidineethanethiol, β -methyl- α -phenyl-, $(\alpha R, \beta S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 188711-05-9 CAPLUS

CN 1-Piperidineethanethiol, β -methyl- α -phenyl-, $(\alpha R, \beta S)$ -rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:213617 CAPLUS

DOCUMENT NUMBER: 126:277632

TITLE: Enantioselective catalytic reduction of

dihydroisoguinoline derivatives

AUTHOR(S): Kang, Jahyo; Kim, Jin Bum; Cho, Kwi Hyung; Cho, Byung

Tae

CORPORATE SOURCE: Department of Chemistry, Sogang University, Seoul,

121-742, S. Korea

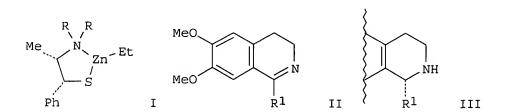
SOURCE: Tetrahedron: Asymmetry (1997), 8(5), 657-660

CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 126:277632

GI



AB Zinc complexes I [RR = (CH2)5, R = Me] were shown to be excellent catalysts for enantioselective reduction of dihydroisoquinolines II (R1 = Me, 3,4-dimethoxy-, 3,4,5-trimethoxybenzyl, 3,4-dimethoxyphenyl) with

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 $\ensuremath{\mathtt{BH3}}\mbox{-}\ensuremath{\mathtt{THF}}$ to the corresponding (R)-tetrahydroisoquinolines III with good enantioselectivity.

IT 166031-49-8

RL: RCT (Reactant); RACT (Reactant or reagent) (enantioselective catalytic reduction of dihydroisoquinoline derivs.)

RN 166031-49-8 CAPLUS

CN 1-Piperidineethanethiol, β -methyl- α -phenyl-, $(\alpha R, \beta S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT:

THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L14 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1997:133573 CAPLUS

DOCUMENT NUMBER:

126:263720

TITLE:

The effects of sulfur substitution in chiral amino thiols on the enantioselective addition of organozinc reagents to aldehydes: a novel method for estimation of free energies of dimerization in monomer-dimer

equilibria

AUTHOR (S):

Kang, Jahyo; Kim, Jin Bum; Kim, Jeong Whan; Lee,

Duckhwan

CORPORATE SOURCE:

Dep. of Chemistry, Sogang University, Seoul, 121-742,

S. Korea

SOURCE:

Journal of the Chemical Society, Perkin Transactions

2: Physical Organic Chemistry (1997), (2),

189-194

CODEN: JCPKBH; ISSN: 0300-9580

PUBLISHER:
DOCUMENT TYPE:

Royal Society of Chemistry

DOCOMENT

Journal

LANGUAGE:

English

N N

Ph

Ι

Differences between the thiol ligand I (X = S) and the corresponding alc. ligand (X = 0) were observed in the catalytic asym. alkylation of benzaldehyde with diethylzinc. The thiol ligand was superior for reaction rate, enantioselectivity and asym. amplification. The effects of chiral amino thiols are discussed and compared with the results of chiral amino

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alc. counterparts. The quant. and thermodn. aspects of the monomer-dimer equilibrium involved in thiazazincolidine or oxazazincolidine catalysts have also been studied on the basis of colligative properties.

IT 166031-49-8 188711-05-9 188711-34-4

RL: CAT (Catalyst use); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant or reagent); USES (Uses)

(effect of sulfur substitution in chiral amino thiols on enantioselective addition of organozinc reagents to aldehydes, and colligative estimation of free energies of dimerization in monomer-dimer equilibrium)

166031-49-8 CAPLUS RN

CN 1-Piperidineethanethiol, β -methyl- α -phenyl-, $(\alpha R, \beta S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 188711-05-9 CAPLUS

CN 1-Piperidineethanethiol, β -methyl- α -phenyl-, $(\alpha R, \beta S)$ -rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 188711-34-4 CAPLUS

1-Piperidineethanethiol, β -methyl- α -phenyl-, [S-(R*,S*)]- (9CI) CN (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:39785 CAPLUS

DOCUMENT NUMBER: 126:131036

TITLE: Chiral β -amino thiol catalysts for the

enantioselective addition of diethylzinc to aldehydes AUTHOR (S): Kang, Jahyo; Kim, Jeong Whan; Lee, Jun Won; Kim, Dong

Soo; Kim, Joo In

CORPORATE SOURCE: Dep. Chem., Sogang Univ., Seoul, 121-742, S. Korea

SOURCE: Bulletin of the Korean Chemical Society (1996

), 17(12), 1135-1142

CODEN: BKCSDE; ISSN: 0253-2964

PUBLISHER: Korean Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

Reaction of diethylzinc with α -branched aldehydes in the presence of a catalytic amount (5 mol %) of various β -amino thiols in toluene or ether provided the corresponding secondary alcs. in outstanding ee. Detailed preparative procedure for the β -amino thiols are presented.

ΙT 160011-80-3P

> RL: CAT (Catalyst use); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(enantioselective addition of diethylzinc to aldehydes using chiral

 β -amino thiol catalysts)

160011-80-3 CAPLUS RN

1-Piperidineethanethiol, α, β -diphenyl-, $(\alpha R, \beta S)$ -CN

(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

ΙT 166031-49-8P

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(enantioselective addition of diethylzinc to aldehydes using chiral β -amino thiol catalysts)

RN 166031-49-8 CAPLUS

CN 1-Piperidineethanethiol, β -methyl- α -phenyl-, $(\alpha R, \beta S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS

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RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:194984 CAPLUS

DOCUMENT NUMBER: 122:55341

TITLE: Enantioselective addition of diethylzinc to aldehydes

catalyzed by a drug-unrelated chiral amino thiol and

the corresponding disulfide

AUTHOR(S): Kang, Jahyo; Kim, Dong Soo; Kim, Joo In

CORPORATE SOURCE: Department Chemistry, Sogang University, Seoul,

121-742, S. Korea

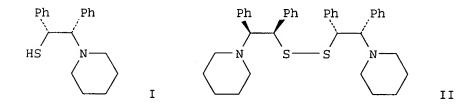
SOURCE: Synlett (1994), (10), 842-4

CODEN: SYNLES; ISSN: 0936-5214

PUBLISHER: Thieme
DOCUMENT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 122:55341

GΙ



- AB Reaction of diethylzinc with aldehydes in the presence of a catalytic amount of a β -amino thiol I (5 mol %) and the disulfide II (2.5 mol %) in toluene at 0° provided the corresponding secondary alcs. in excellent ee's.
- IT 160011-80-3P-

RL: CAT (Catalyst use); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(enantioselective addition of diethylzinc with aldehydes catalyzed by chiral amino thiol and disulfide)

RN 160011-80-3 CAPLUS

CN 1-Piperidineethanethiol, α,β -diphenyl-, $(\alpha R,\beta S)$ -(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L14 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:86424 CAPLUS

DOCUMENT NUMBER: 123:142957

TITLE: Enantioselective addition of diethylzinc to

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Page 43

 α -branched aldehydes

AUTHOR(S): Kang, Jahyo; Lee, Jun Won; Kim, Joo In

Department of Chemistry, Sogang University, Seoul, CORPORATE SOURCE:

121-742, S. Korea

SOURCE: Journal of the Chemical Society, Chemical

Communications (1994), (17), 2009-10

CODEN: JCCCAT; ISSN: 0022-4936

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 123:142957

Reaction of diethylzinc with $\alpha\text{-branched}$ aldehydes in the presence of a catalytic amount of (1R,2S)-(-)-1-phenyl-2-piperidinopropane-1-thiol provided the corresponding secondary alcs. in almost 100% enantiomeric excess.

166031-49-8P IT

RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation);

(best catalyst; as ligand catalyst for enantioselective addition of diethylzinc to α -branched aldehydes)

RN 166031-49-8 CAPLUS

CN 1-Piperidineethanethiol, β -methyl- α -phenyl-, $(\alpha R, \beta S)$ - (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L14 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:560233 CAPLUS

DOCUMENT NUMBER: 119:160233

TITLE: Reactions of carbanions generated from

2-(dialkylamino)-2-phenylacetonitriles with

disubstituted acetylenes

AUTHOR (S): Zdrojewski, Tadeusz; Jonczyk, Andrzej

CORPORATE SOURCE: Dep. Chem., Tech. Univ. (Politechnika), Warsaw,

00-662, Pol.

SOURCE: Liebigs Annalen der Chemie (1993), (4),

375-8

CODEN: LACHDL; ISSN: 0170-2041

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

II

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AB Reactions of aminonitriles PhCH(NR12)CN [R12 = (CH2)5, (CH2)4, (CH2)2O(CH2)2, (CH2)2S(CH2)2, (CH2)2NMe(CH2)2] with MeC.tplbond.CR2 (R2 = SMe, Ph), carried out in DMSO in the presence of powdered sodium hydroxide and benzyltriethylammonium chloride (TEBAC) as a catalyst, afford either PhC(NR12)(CN)CMe:CHR2 (I) as the E/Z isomer mixture or the pure E isomer or a mixture of I (R2 = SMe) and dipiperidinopentenenitrile II; unmasking of the carbonyl group in I [R12 = (CH2)5, R2 = Ph] and II gives ketones PhCOCMe:CHPh and PhCOCHMeCH(SMe)COPh, resp.

IT 150179-13-8P 150179-14-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and cleavage of)

RN 150179-13-8 CAPLUS

CN 1-Piperidineacetonitrile, α -[2-methyl-1-(methylthio)-3-phenyl-3-(1-piperidinyl)-2-propenyl]- α -phenyl-, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

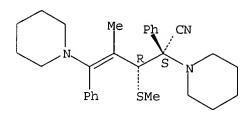
Double bond geometry unknown.

RN 150179-14-9 CAPLUS

CN 1-Piperidineacetonitrile, α -[2-methyl-1-(methylthio)-3-phenyl-3-(1-piperidinyl)-2-propenyl]- α -phenyl-, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry unknown.



L14 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:228476 CAPLUS

DOCUMENT NUMBER: 114:228476

TITLE: Synthesis and study of derivatives of

3-(alkylamino)-2-(methylthio)carboxylic acids

AUTHOR(S): Vidugiriene, V.; Valaviciene, J.; Rasteikiene, L.

CORPORATE SOURCE: Inst. Biokhim., Vilnius, USSR

SOURCE: Chemija (1990), (2), 101-6 CODEN: CHMJES; ISSN: 0235-7216

DOCUMENT TYPE: Journal LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 114:228476

AB Treating Z-RCH: C(SMe) COX (R = Ph, Me, X = NHPh; R = Ph, X = OMe) and

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RCHClCH(SMe)COX (same R, X) with 2-4 equiv HA (A = piperidino, morpholino, cyclohexylamino, ethylenimino, NHC5H11-n) gave 10 corresponding RCHACH(SMe)COX (I) as erythro-threo mixts. I had low-to-moderate toxicity and antitumor activity, with I (R = Ph, A = piperidino, X = NHPh) showing the best profile.

RN 133508-72-2 CAPLUS

CN 1-Piperidinepropanoic acid, α -(methylthio)- β -phenyl-, methyl ester, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 133508-73-3 CAPLUS

CN 1-Piperidinepropanoic acid, α -(methylthio)- β -phenyl-, methyl ester, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 133508-80-2 CAPLUS

CN 1-Piperidinepropanamide, α -(methylthio)-N, β -diphenyl-, (R*,R*)- (9CI) (CA INDEX NAME)

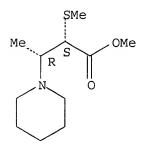
RN 133508-81-3 CAPLUS CN 1-Piperidinepropanamide, α -(methylthio)-N, β -diphenyl-, (R*,S*)-(9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 133612-17-6 CAPLUS CN 1-Piperidinepropanoic acid, β -methyl- α -(methylthio)-, methyl ester, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 133612-23-4 CAPLUS CN 1-Piperidinepropanoic acid, β -methyl- α -(methylthio)-, methyl ester, (R*,S*)- (9CI) (CA INDEX NAME)



L14 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1991:206268 CAPLUS

DOCUMENT NUMBER:

114:206268

TITLE:

Nucleophilic addition of amines to derivatives of

unsaturated acids containing 2-alkyl (phenyl) thio

AUTHOR(S):

Talaikyte, Z.; Vidugiriene, V.; Rasteikiene, L.

CORPORATE SOURCE:

Inst. Biokhim., Vilnius, USSR
Chemija (1990), (2), 93-100

SOURCE:

CODEN: CHMJES; ISSN: 0235-7216 Journal

DOCUMENT TYPE: LANGUAGE:

Russian

GΙ

CHRCH (SR2) COX



Ι

- AB The title reaction of piperidine or morpholine with RCH:C(SR1)COX (R = Me, Ph; R1 = Me, Ph, CH2CH2Cl; X = NHPh, OMe) is nonstereospecific and gives mixts. of derivs. of erythro- and threo-butanoic acid I (R = Me, R2 = Me, piperidino- or morpholinoethyl; Y = CH2, O) or -phenylpropanoic acid I (R = Ph).
- IT 133508-66-4P 133508-67-5P 133508-72-2P 133508-73-3P 133508-80-2P 133508-81-3P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

133508-66-4 CAPLUS RN

CN 1-Piperidinepropanamide, β -methyl- α -(methylthio)-N-phenyl-, (R^*, R^*) - (9CI) (CA INDEX NAME)

RN 133508-67-5 CAPLUS CN 1-Piperidinepropanamide, β -methyl- α -(methylthio)-N-phenyl-, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 133508-72-2 CAPLUS CN 1-Piperidinepropanoic acid, α -(methylthio)- β -phenyl-, methyl ester, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 133508-73-3 CAPLUS CN 1-Piperidinepropanoic acid, α -(methylthio)- β -phenyl-, methyl ester, (R*,S*)- (9CI) (CA INDEX NAME)

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RN 133508-80-2 CAPLUS

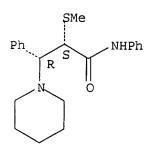
CN 1-Piperidinepropanamide, α -(methylthio)-N, β -diphenyl-, (R*,R*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

RN 133508-81-3 CAPLUS

CN 1-Piperidinepropanamide, α -(methylthio)-N, β -diphenyl-, (R*,S*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L14 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1990:458617 CAPLUS

DOCUMENT NUMBER:

113:58617

TITLE:

Reactions of organic anions. 168. Reactions of 2-(dialkylamino)arylacetonitriles with acetylenes under basic conditions. A simple synthesis of

substituted mono- and diketones

AUTHOR (S):

Zdrojewski, T.; Jonczyk, A.

CORPORATE SOURCE:

Dep. Chem., Tech. Univ., Warsaw, PL-00-662, Pol.

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03/14/2005

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SOURCE:

Synthesis (1990), (3), 224-33

CODEN: SYNTBF; ISSN: 0039-7881

DOCUMENT TYPE: LANGUAGE: Journal English

OTHER SOURCE(S):

CASREACT 113:58617

The reaction of RCH(CN)NR12 (I; R = Ph, 4-MeC6H4, 4-MeOC6H4; R1 = Me; NR12 = piperidino, morpholino, etc.) with R2C.tplbond.CH (II; R2 = Ph, MeS) gave R12NCR(CN)CH:CHR2 (III) and/or R12NCR(CN)CHR2CH:CRNR12; the product depended on the basicity of the amino group in III. I also added to C-1 of II (R2 = EtO) to give R12NCR(CN)C(OEt):CH2. All these products could be hydrolyzed to give mono- or diketones.

IT 128407-40-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and hydrolysis of)

RN 128407-40-9 CAPLUS

CN 1-Piperidineacetonitrile, α-[1-(methylthio)-3-phenyl-3-(1-piperidinyl)-2-propenyl]-α-phenyl- (9CI) (CA INDEX NAME)

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